

## THE FOOD-PLANTS OR HOSTS OF SOME FIJIAN INSECTS. IV.

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(Communicated by Dr. A. B. Walkom.)

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This paper contains a number of new records which have been obtained since Part iii appeared (These PROCEEDINGS, liv, 1929, 344). Thanks are due to the authorities at the Imperial Institute of Entomology for most of the insect identifications and at the Royal Botanic Gardens, Kew, for naming some of the plants.

Credit for the various records is given by initials as follows: W. Greenwood (W.G.), C. Knowles (C.K.), A. Lea (A.L.), R. Lever (R.L.), R. Paine (R.P.), H. Phillips (H.P.), H. Simmonds (H.S.), T. Taylor (T.T.), R. Veitch (R.V.).

The records credited to Mr. H. Phillips have been seen and verified by the writer. All records, except those credited to Phillips, Veitch and Greenwood, have been taken from various publications.

During recent years the names of a number of common tropical plants have been altered. In such cases the writer has adhered to the name used in previous articles of this series.

## LEPIDOPTERA.

Except where otherwise stated, the records for Lepidoptera refer to the feeding habits of the larva.

NYMPHALIDAE: *Doleschalia bisalta* Cram. Eats the leaves of the following Acanthaceae: *Eranthemum laxiflorum* A. Gray and *Graptophyllum pictum* L. (both H.S.).

LYCAENIDAE: *Nacaduba biocellata* Feld. Feeds on flower heads of *Acacia Farnesiana* Willd. (Leguminosae) (H.P.).

SPHINGIDAE: *Herse convolvuli* L. Feeds on leaves of *Ipomoea Bona-nox* L. (Convolvulaceae) (W.G.).

ARCTIIDAE: *Utetheisa pulchella* L. Skeletonizing leaves of *Tournefortia argentea* L.f. (Boraginaceae) (H.P.).

GEOMETRIDAE: *Casbia alphitoniae* L. B. Prout. Feeds on leaves of *Alphitonia zizyphoides* A. Gray. (Rhamnaceae) (H.P.).—*Thalassodes pilaria* Gn. Eats the leaves of *Eugenia Jambos* L. (Myrtaceae) (W.G.).—*Colutoceras cheramota* Meyr. Eats the leaves of *Nelitris vitiensis* A. Gray. (Myrtaceae) (W.G.).—*Anisodes compacta lautokensis* L. B. Prout. Feeds on the leaves of *Nelitris vitiensis* A. Gray. (Myrtaceae) (W.G.).—*Gymnoscelis minutissima* Swinh. Feeds on the leaves of *Nelitris vitiensis* A. Gray. (Myrtaceae) (H.P.).—*Cleora munditibia* L. B. Prout. Feeds on leaves of *Mucuna aterrima* Holland. (Leguminosae) (W.G.).

NOCTUIDAE: *Anomis fulvida xanthochroa* Butl. Eats the leaves of *Hibiscus tiliaceus* L. (Malvaceae) (H.P.).—*Hyblaea sanguinea* Gaede. Folds and feeds on leaves of *Premna taitensis* Schauer. (Verbenaceae) (W.G.).—*H. puera* Cram.



Folds and feeds on leaves of *Vitex trifolia* L. (Verbenaceae) (H.P.).—*Phlegetonia delatrix* Guen. Feeds on leaves of the following Myrtaceae: *Eugenia Jambos* L. (W.G.) and *Nelitris vitiensis* A. Gray (H.P.).—*Phytometra chalcites* Esp. Eats the leaves of the following Leguminosae: *Pueraria Thunbergiana* Benth. (H.P.), *Clitoria Ternatea* L. (W.G.) and *Vigna Catiang* Walp. (H.P.); also eats the flowers of *Solanum torvum* Sw. (Solanaceae) (H.P.).—*Amyna octo* Guen. Feeds on leaves of *Cardiospermum halicacabum* L. (Sapindaceae) (W.G.).—*A. natalis* Wlk. Feeds on leaves of *Malvastrum tricuspidatum* A. Gray (Malvaceae) (W.G.) and *Amaranthus viridis* L. (Amaranthaceae) (H.P.).—*Rhesala albizziae* A. E. Prout. Eats the leaves of *Albizzia Lebbek* Benth. and *A. procera* Benth. (Leguminosae) (both W.G.).—*Heliothis obsoleta* Fab. Feeds on buds and flowers of *Antirrhinum majus* L. (Scrophulariaceae) (W.G.), leaves of *Coleus Blumei* Benth. (Labiatae) (W.G.), leaves of *Zinnia elegans* Jacq. (Compositae) (W.G.), flower heads of *Tagetes patula* L. (Compositae) (W.G.), green pods of *Pisum sativum* L. (Leguminosae) (H.P.) and fruits of *Nicotiana Tabacum* L. (Solanaceae) (H.S.).—*H. assulta* Guen. Feeds on flower heads of *Tithonia diversifolia* Hemsl. (Compositae) (H.P.).—*Mocis trifasciata* Steph. Eats the leaves of *Pueraria Thunbergiana* Benth. (Leguminosae) (W.G.).—*Earias huegeli* Rogenh. Eats the fruits of *Urena lobata* L. (Malvaceae) (W.G.) and of *Triumfetta rhomboidea* Jacq. (Tiliaceae) (W.G.).—*Eublemma rivula* Moore. Feeds in the flower heads of *Vernonia cinerea* Less. (Compositae) (H.P.).—*E. anachoresis* Wllg. Eats the leaves of *Waltheria americana* L. (Sterculiaceae) (W.G.).—*Achaea janata* L. Feeds on flowers of *Punica granatum* L. (Lythraceae) (H.P.).—*Grammodes oculicola* Wlk. Eats the leaves of *Phyllanthus Ferdinandi* Mull-Arg. (Euphorbiaceae) (W.G.).—*Nanaguna breviscula* Wlk. Feeds on the flowers of *Desmodium umbellatum* DC. (Leguminosae) (W.G.).—*Ericeia levuensis* A. E. Prout. Feeds on leaves of *Cassia fistula* L. (Leguminosae) (H.P.).—*Othreis fullonica* L. Eats the leaves of *Erythrina fusca* Lour. (Leguminosae) (H.P.).—*Paralelia aetica* Fldr. Eats the leaves of *Nelitris vitiensis* A. Gray (Myrtaceae) (W.G.).—*Agrotis ypsilon* Rott. Feeds on *Nicotiana Tabacum* L. (Solanaceae) (R.L.).

PYRALIDAE: *Nacoleia diemenalis* Gn. Eats the leaves of *Phaseolus aconitifolius* Roxb. (Leguminosae) (W.G.).—*Maruca testulalis* Hb. Feeds on the following Leguminosae: green pods of *Crotalaria striata* DC. (H.P.), green pods of *Canavalia gladiata* DC. (W.G.) and leaves of *Phaseolus Mungo* L. (W.G.).—*Terastia meticulosalis* Gn. Tunnels in shoots of *Erythrina fusca* Lour. (Leguminosae) (W.G.).—*Botyodes asiaticus* Gn. Feeds on leaves of *Casearia disticha* A. Gray (Samydaceae) (H.P.).—*Hypargyria metalliferella* Rag. Eats the leaves and flowers of *Celastrus Richii* A. Gray (Celastrinae) (W.G.).—*Margaronia marinata* F. Eats the leaves of *Guettarda speciosa* L. (Rubiaceae) (H.P.).—*M. oceanitis* Meyr. Feeds on the leaves of *Erratamia orientalis* Turrill (Apocynaceae) (H.P.).—*M. indica* Saund. Feeds on leaves of the following Cucurbitaceae: *Cucumis sativus* L. (R.L.), *Sechium edule* Sw. (W.G.), *Momordica Charantia* L. (W.G.) and *Citrullus vulgaris* Schrad. (W.G.).—*Pagyda tremula* Meyr. Eats the leaves of *Premna taitensis* Schauer. (Verbenaceae) (H.P.).—*Rehimena phrynealis* Wlk. Feeds in green fruits of *Kleinohoria hospita* L. (Sterculiaceae) (W.G.).—*Striglina superior* Butl. Eats the leaves of *Cassia fistula* L. (Leguminosae) (H.P.).—*Ceratagra mitrophora* Meyr. Feeds on young leaves of *Catha vitiensis* Seem. (Celastrinae) (W.G.).—

*Homocosoma symnicta* Meyr. Feeds in flower heads of *Erigeron floribundus* (H.B.K.) Schult.-Bip. (Compositae) (W.G.).—*H. hypogypsa* Meyr. Feeds in flower heads of *Vernonia cinerea* Less. (Compositae) (W.G.).—*Myelois pectinicornella* Hmps. Feed in pods of the following Leguminosae: *Erythrina indica* Lam. (H.P.) and *Bauhinia monandra* Kurz. (W.G.).—*Thiallela rhodoptila* Meyr. Eats the leaves of *Alphitonia zizyphoides* A. Gray (Rhamnaceae) (W.G.).—*Tirathaba trichogramma* Meyr. Feeds on the flowers of the following Palmae: *Pritchardia pacifica* Seem. and *Oreodoxa regia* Humbt. (both R.P.).—*Cryptoblabea plagioleuca* Turn. Feeds on flowers of *Eriobotrya japonica* Lindl. (Rosaceae) (W.G.), young leaves of *Inocarpus edulis* Forst. (Leguminosae) (H.P.), green fruits of *Ricinus communis* L. (Euphorbiaceae) (W.G.) and green fruits of *Vitex trifolia* L. (Verbenaceae) (H.P.).—*Salebria ferrorubella* Wlk. Eats the flowers of *Dysoxylon Richii* (A. Gray) Seem. (Meliaceae) (W.G.).—*Phalobathra escigera* Meyr. Eats the leaves of *Celastrus Richii* A. Gray (Celastrinae) (W.G.).—*Omiodes vulgaris* Gn. Feeds on the leaves of *Alternanthera sessilis* R.Br. (Amarantaceae) (W.G.).—*Etiella drososcia* Meyr. Feeds in ripe pods of *Crotalaria striata* DC. (Leguminosae) (W.G.).—*E. behri* Zell. Feeds in ripe pods of the following Leguminosae: *Crotalaria striata* DC. and *Erythrina indica* Lam. (both H.P.).—*Ercta ornatalis* Dup. Eats the leaves of *Ipomoea pes-caprae* Sw. (Convolvulaceae) (H.P.).—*Ephestia cautella* Wlk. Feeds on dried peaches (H.P.), raisins and stored copra (both R.L.).—*Chilo simplex* Butl. Feeds in stalks of *Oryza sativa* L. (Gramineae) (W.G.).—*Heortia vitessoides* Moore. Larvae feed in swarms on leaves of *Phaleria lanceolata* Gilg. (Thymeleaceae) (W.G.).—*Crocidolomia binotalis* Zell. Feeds on leaves of *Brassica oleracea* L. (Cruciferae) (R.L.).—*Nephoptyx exotypa* Meyr. Webs together and skeletonizes the leaves of *Pleiogyrum Solandri* Engl. (Anacardiaceae) (W.G.).

TINEIDAE: *Batrachedra arenosella* Wlk. Feeds on inflorescence of *Cocos nucifera* L. (Palmae) (T.T.).—*B. atriloqua* Meyr. Feeds on the inflorescence of *Cocos nucifera* L. (Palmae) (T.T.).—*Hellula undalis* F. Eats the leaves of *Brassica campestris* L. (Cruciferae) (R.L.).—*Setomorpha rutella* Zell. Feeds on leaves of *Psidium Guayana* L. (Myrtaceae) (R.L.).—*Aeotarchis sphenotoma* Meyr. Feeds on surface of leaves of *Pandanus caricosus* Rumph. (Pandanaeae) (R.L.).

LYONETIADAЕ: *Decadarchis heterogramma* Meyr. Larvae feed in old dry pods of *Bauhinia monandra* Kurz. (Leguminosae) and in dead stems of *Zea Mays* L. (Gramineae) (both W.G.). Bred from pupae of *Tirathaba trichogramma* Meyr. (Pyralidae) (R.P.).—*D. flavistriata* Wals. Feeds in decaying timber (H.P.).—*D. psammaula* Meyr. Feeds on leaves of *Cocos nucifera* L. (Palmae) (R.L.).—*Opogona citrinodes* Meyr. Feeds in rotten pods of *Mucuna aterrima* Holland (Leguminosae) (W.G.).—*O. regressa* Meyr. Feeds on flowers of *Cocos nucifera* L. (Palmae) (R.P.) and in the fruits of *Inocarpus edulis* Forst. (Leguminosae) (R.L.).

GRACILARIADAЕ: *Gracilaria palaearcha* Meyr. Rolls and feeds on leaves of *Phyllanthus Ferdinandi* Mull-Arg. (Euphorbiaceae) (H.P.).—*G. xanthopharella* Meyr. Feeds on leaves of *Phyllanthus Ferdinandi* Mull-Arg. (Euphorbiaceae) (H.P.).

HYPONOMEUTIDAЕ: *Ethmia colonella* Wals. Eats the leaves of *Cordia subcordata* Lam. (Boraginaceae) (H.P.).

- GLYPHIPTERYGIDAE: *Simaethis chalcotoxa* Meyr. Feeds on the leaves of *Ficus Barclayi* Seem. (Urticaceae) (W.G.).
- HELIODINIDAE: *Stathmopoda trichrysa* Meyr. Feeds in dry pods of following Leguminosae: *Bauhinia monandra* Kurz. and *Caesalpinia pulcherrima* Sw. (both W.G.).
- COSMOPTERYGIDAE: *Labdia calida* Meyr. Feeds on seeds in ripe pods of *Caesalpinia pulcherrima* Sw. and *C. Bonduc* Roxb. (Leguminosae) (both W.G.).—*Ascalenia thoracista* Meyr. Feeds on flowers of *Albizia Lebbek* Benth. and *A. procera* Benth. (Leguminosae) (both W.G.).—*Pyroderces paroditis* Meyr. Feeds on inflorescence of *Cocos nucifera* L. (Palmae) (T.T.).
- COLEOPHORIDAE: *Coleophora immortalis* Meyr. Feeds on inflorescence of *Amaranthus viridis* L. (Amarantaceae) (W.G.).
- PHYLLORYCTERIDAE: *Cyphosticha coerulea* Meyr. Feeds under epidermis of leaves of following Leguminosae: *Canavalia gladiata* DC., *Dolichos Lablab* L. and *Atylosia scarabaeoides* Benth. (all W.G.).
- EUCOSMIDAE: *Argyroploce illepida* Butl. Feeds on fruits of *Colubrina asiatica* Brongn. (Rhamnaceae) (W.G.).—*Spilonota holotephra*s Meyr. Eats the young leaves of the following Myrtaceae: *Nelitris vitiensis* A. Gray, *Eugenia rivularis* Seem., *Metrosideros polymorpha* Gaud. and *Eucalyptus maculata* Hook. var. *citriodora* Hook. (all W.G.).
- TORTRICIDAE: *Adoxophyes fasciculana* Wlk. Eats the leaves of *Enterolobium Saman* Prain (Leguminosae) (W.G.), *Jasminum didymum* Forst. (Oleaceae) (H.P.) and *Psidium Guayava* L. (Myrtaceae) (R.L.).
- PTEROPHORIDAE: *Sphenarches caffer* Zell. Feeds on flowers of *Antirrhinum majus* L. (Scrophulariaceae) (W.G.) and on leaves of *Lagenaria vulgaris* Ser. (Cucurbitaceae) (H.P.).
- GALLERIIDAE: *Meliphora grisella* F. Feeds on shelled walnuts (W.G.).—*Corcyra cephalonica* Staint. Found feeding in dried apples from Australia (H.P.).

#### COLEOPTERA.

- The records for Coleoptera refer to the feeding habits of the larva unless otherwise stated.
- CUCUJIDAE: *Oryzaephilus surinamensis* L. Feeds in stored rice, coconut meal and peach stones (R.L.).
- NITIDULIDAE: *Haptonchus tetragonus* Murr. Feeds on ripe damaged fruits of *Ananas sativus* Schult. f. (Scitamineae) (W.G.).
- COCCINELLIDAE: *Epilachna 28-punctata* F. Both larva and imago feed on leaves of *Cucumis sativus* L. (Cucurbitaceae) (R.L.).—*Cryptolaemus montrouzieri* Muls. Both larva and imago feed on Coccidae generally (A.L.).—*Cryptognatha nodiceps* Mshl. Both larva and imago feed on *Aspidiotus destructor* Sign. and *Diaspis pentagona* Targ. (Coccidae) (both T.T.).—*Chilocorus nigrinus* F. var. Imago feeds on *Aspidiotus destructor* Sign. (Coccidae) (R.P.).
- CLERIDAE: *Necrobia rufipes* de Geer. Larvae feed in rice bran (R.L.).
- PTINIDAE: *Cathorama herbarium* Gorh. Larvae bore in books (R.L.).
- TENEBRIONIDAE: *Tribolium castaneum* Hbst. Feed in stored Rice (R.L.).—*T. ferrugineum* F. Feed on stored rice (R.L.).—*Alphitobius laevigatus* F. Feed in rice bran (R.L.).
- RUTELIDAE: *Adoretus versutus* Har. The imago eats the leaves of *Zinnia elegans* Jacq. (Compositae) and *Acalypha Wilkesiana* Mull-Arg. (Euphorbiaceae) (both W.G.).

- SCARABIDAE: *Coprus incertus* L. var. *prociduus*. Feeds on larvae of *Musca domestica* L. (Muscidae) (H.S.).
- CERAMBYCIDAE: *Oopsis mutator* F. Feeds on seeds in pods of *Erythrina indica* Lam. (Leguminosae) (H.P.).—*Olethrius scabripennis* F. Bores in stems of *Bruguiera Rheedii* Bl. and *Rhizophora mucronata* Lam. (Rhizophoraceae) (both W.G.).
- HALTICIDAE: *Aphthona veitchi* Bryant. Imago feeds on leaves of *Euphorbia chamissonis* Boiss. (Euphorbiaceae) (W.G.).
- GALERUCIDAE: *Aulacophora argyrogaster* Montr. Imago eats the leaves of *Cucumis Melo* L. (Cucurbitaceae) (W.G.).—*A. coffaea* Horn. Imago eats the leaves of the following Cucurbitaceae: *Cucumis sativus* L. and *Cucurbita Pepo* DC. (both R.L.).
- HISPIDAE: *Promecotheca reichei* Baly. All stages feed on leaves of *Pritchardia pacifica* Seem. (Palmae) (R.P.).
- BRUCHIDAE: *Pachymerus gonager* F. Feeds in ripe pods of *Bauhinia monandra* Kurz. (Leguminosae) (W.G.).
- SCOLYTIDAE: *Xyleborus perforans* Woll. Found boring in trunks of *Cocos nucifera* L. (Palmae) (R.P.).—*X. morstatti* Hag. Found boring in stems of *Persea gratissima* Gaertn. (Lauraceae) (R.P.).
- PLATYPIDAE: *Platypus gerstaeckeri* Chap. Bores in timber of *Podocarpus vitiensis* Seem. (Coniferae) (R.L.).
- ANTHRIBIDAE: *Araccerus fasciculatus* de Geer. Feed on seeds in pods of *Caesalpinia pulcherrima* Sw. (Leguminosae) (W.G.).
- CURCULIONIDAE: *Elytroteinus subtruncatus* Fairm. Bores in stems of garden *Begonia* (Begoniaceae) (H.S.).

## HYMENOPTERA

The records for Hymenoptera refer to the feeding habits of the larva.

- ICHNEUMONIDAE: *Ecthromorpha diversor* Morl. Parasitic on larva of *Botyodes asiatis* Gn. (Pyralidae) (H.P.) and on pupa of *Tirathaba trichogramma* Meyr. (Pyralidae) (T.T.).—*E. tirathabae* Perk. Bred from pupae (?) of *Tirathaba trichogramma* Meyr. (Pyralidae) (T.T. and R.P.).—*Nemeritis palmaris* Wilk. Parasitic on *Tirathaba trichogramma* Meyr. (Pyralidae) (R.L.).
- BRACONIDAE: *Meteorus trichogrammae* Wilk. Parasitic on larva of *Tirathaba trichogramma* Meyr. (Pyralidae) (T.T.).—*Phaenocarpa leveri* Nixon. Bred from larvae of *Dacus passiflorae* Frogg. (Trypetidae) (R.L.).—*Macrocentrus calacte* Nixon. Bred from larvae of *Argyroptoce illepidata* Butl. (Tortricidae) (R.L.).—*Biosteres tryoni* Cam. Parasitic on larvae of *Dacus passiflorae* Frogg. (Trypetidae) (R.L.).—*Opius fletcheri* Silv. Parasitic on larvae of *Dacus passiflorae* Frogg. (Trypetidae) (R.L.).—*Apantales tirathabae* Wilk. Parasitic on larva of *Tirathaba trichogramma* Meyr. (Pyralidae) (T.T.).
- CHALCIDAE: *Brachymeria fijiensis* Ferr. Parasitic on *Platyedra gossypiella* Saund. (Gelechiidae) (H.S.) and *Agonozena argaula* Meyr. (Coleophoridae) (H.S.).—*Antrocephalus renalis* Waterst. Bred from pupae of *Tirathaba trichogramma* Meyr. (Pyralidae) (R.L.).—*Spalangia cameroni* Perk. Parasitic on pupae of *Dacus passiflorae* Frogg. (Trypetidae) and *Musca domestica* L. var. *vicina* Macq. (Muscidae) (both R.L.).
- EULOPHIDAE: *Syntomosphyrum indicum* Silv. Parasitic on larvae of *Dacus passiflorae* Frogg. (Trypetidae) (R.L.).—*Aspidiotiphagus citrinus* Craw. Parasitic on *Diaspis rosae* Sandberg. (Coccidae) (C.K.).—*Pleurotropis parvulus* Ferr.

- Parasitic on larvae and pupae of *Promecotheca reichei* Baly and *P. bicolor* Maulik (Hispidae) (both T.T.).—*Tetrastichus taylori* Ferr. Parasitic on *Elasmus hispidarum* Ferr. (Elasmidae) (T.T.).—*T. giffardianus* Silv. Parasitic on larvae and pupae of *Dacus passiflorae* Frogg. (Trypetidae) (H.S.).
- ELASMIDAE: *Elasmus hispidarum* Ferr. Feeds on larva of *Promecotheca reichei* Baly (Hispidae) (T.T.).
- TRICHOGRAMMATIDAE: *Oligosita utilis* Kow. Parasitic on eggs of *Promecotheca reichei* Baly (Hispidae) (T.T.).—*Trichogrammatoidea nana* Zehnt. Parasitic on larva of *Levuana iridescens* B-B. (Zygaenidae) (T.T.) and on eggs of *Tirathaba trichogramma* Meyr. (Pyralidae) (T.T.).
- POMPHILIDAE: *Cyphononyx vitiensis* Turn. Imago stores its nest with paralysed Araneid spiders' (W.G.).

## HEMIPTERA.

- The records for Hemiptera refer to all stages except where otherwise noted.
- PENTATOMIDAE: *Vitellus insularis* St. On leaves and shoots of *Guioa rhoifolia* Radlk. (Sapindaceae) (W.G.).—*Brachyplatys pacifica* Dall. Feeds on leaves and shoots of *Erythrina fusca* Lour. (Leguminosae) (W.G.).—*Tectocoris lineola* F. Feeds on shoots of *Sterculia Guppyi* Greenwood (Sterculiaceae) (W.G.).
- LYGAEIDAE: *Paromius pallidus* Montr. On inflorescence of *Dichanthium annulatum* Stapf (Gramineae) (W.G.).—*Graptostethus servus* F. var. Feeding on shoots of *Canavalia ensiformis* DC. (Leguminosae) (W.G.).—*Germalus pacificus* Kirk. Feeds on eggs and nymphs of *Teleonemia lantanae* Dist. (Tingidae) and on eggs of *Dacus passiflorae* Frogg. (Trypetidae) (both H.S.).
- TINGIDAE: *Teleonemia lantanae* Dist. Leaves of *Lantana crocea* (Verbenaceae) (H.S.).
- CAPSIDAE: *Orthotylus vitiensis* Kirk. On stems and leaves of *Premna taitensis* Schauer. (Verbenaceae) (W.G.).
- DELPHACIDAE: *Sogota furcifera* Horv. Feeds on leaves and stems of *Oryza sativa* L. (Gramineae) (R.L.).
- PSYLLIDAE: *Mesohomotoma hibisci* Frogg. On leaves of *Hibiscus tiliaceus* L. (Malvaceae) (H.P.).
- APHIDAE: *Oregma iceryae* Laing. On *Miscanthus japonicus* Anderss. (Gramineae) (R.V.).—*Pentalonia nigronervosa* Coq. On *Musa sapientum* L. (Scitamineae) (original recorder's name unknown to the writer).
- ALEUROBIDAE: *Neomaskellia bergii* Sign. On underside of leaves of the following Gramineae: *Lepturus repens* R.Br. and *Urochloa paspaloides* Presl. (both W.G.).
- COCCIDAE: *Icerya seychellarum* Westw. On stems of *Cinnamomum Zeylanicum* Breyn. (Lauraceae) and on pods of *Enterolobium Saman* Prain (Leguminosae) (both W.G.). Also on leaves of *Persea gratissima* Gaertn. (Lauraceae) (R.L.).—*I. purchasi* Mask. On stems of *Crotalaria striata* DC. (Leguminosae) (W.G.).—*Aulacaspis pentagona* T.T. Feeds on stems of the following Verbenaceae: *Stachytarpheta jamaicensis* Vahl. (H.S.), *S. mutabilis* Vahl. (W.G.) and *Verbena bonariensis* L. (W.G.).—*Chionaspis citri* Comst. On stems, leaves and fruit of *Citrus aurantium* L. var. *japonica* (Rutaceae) (W.G.).—*Vinsonia stellifera* Westw. On leaves of *Garcinia xanthochymus* Hook. (Guttiferae) (W.G.).—*Lecanium viride* Green. On *Ixora coccinea* L. (Rubiaceae) (W.G.).—*L. hemisphaericum* T.T. On pinnae of *Adiantum*

*trapeziforme* Sw. (Filices) (W.G.).—*Pseudococcus citri* Risso. On leaves of the following Urticaceae: *Pellionia elatostemoides* Gaud. and *P. filicoides* Seem. (both W.G.).—*Ceroplastes rubens* Mask. On stems *Asystasia gangetica* T. And., *Thunbergia fragrans* Roxb. and *T. erecta* Boj. (Acanthaceae) (all W.G.). On leaves *Barringtonia racemosa* Bl. (Lecythidaceae) (W.G.).—*Saissetia nigra* Nietn. On leaves *Canna indica* L. (Scitamineae), stems *Coleus amboinicus* Lour. (Labiatae), stems and leaves *Xanthium italicum* Moretti (Compositae), leaves of *Plumeria acutifolia* Poir. (Apocynaceae) (all W.G.).—*Aspidiotus destructor* Sign. On leaves of *Plumeria acutifolia* Poir. (Apocynaceae) (W.G.), *Piper* spp. (Piperaceae) (R.P.), *Cassia obtusifolia* L. (*C. Tora* L.) (Leguminosae) (R.P.), *C. occidentalis* L. (Leguminosae) (R.P.), leaves *C. nodosa* Buch-Ham. (Leguminosae) (W.G.), *Psidium Guayava* L. (Myrtaceae) (R.P.), *Mangifera indica* L. (Anacardiaceae) (R.P.), *Inocarpus edulis* Forst. (Leguminosae) (R.P.), *Spondias dulcis* Forst. (Anacardiaceae) (R.P.), *Aleurites triloba* Forst. (Euphorbiaceae) (R.P.), *Hevea brasiliensis* Mull-Arg. (Euphorbiaceae) (R.P.), *Wormia biflora* Seem. (Dilleniaceae) (R.P.), *Zingiber officinale* Rosc. (Scitamineae) (R.P.), leaves *Alpinia nutans* Rosc. (Scitamineae) (W.G.), *Tetranthera vitiensis* Meisn. (Lauraceae) (R.P.), *Dioscorea mummularia* Lam. (Dioscoreaceae) (R.P.), *Laportea vitiensis* Seem. (Urticaceae) (R.P.), leaves *Macaranga Seemanni* Mull-Arg. (Euphorbiaceae) (W.G.) and leaves *Artocarpus incisa* L. (Urticaceae) (W.G.).

## THYSANOPTERA.

*Liothrips urichi* Karny. Feeds on *Clidemia hirta* Don. (Melastomaceae) (H.S.).—*Haplothrips gowdeyi* Frankl. Feeds on *Stachytarpheta jamaicensis* Vahl. (Verbenaceae) (H.S.).—*Microcephalothrips abdominalis* Crawf. Feeds in flower heads of *Vernonia cinerea* Less. (Compositae) (W.G.).

## ANOPLURA.

TARSONOMIDAE: *Pediculoides ventricosus* Newp. Feeds on larvae of *Promecotheca reichei* Baly. (Hispidae) (T.T.).

## ORTHOPTERA.

BLATTIDAE: *Eupella supellectilium* Son. Nymph and imago feed on books and papers (R.L.).

## ISOPTERA.

The following white ants are recorded as damaging timber in Fiji: *Eutermes olidus* Hill (R.L.), *Coptotermes acinaciformis* Frogg. (R.L.), *Kalotermes repandus* Hill (R.L.), *K. buxtoni* Hill (R.L.), *K. taveuniensis* Hill (R.L.), *Prorhinotermes inopinatus* Silv. (R.L.).

## DIPTERA.

The records for Diptera refer to the feeding habits of the larva unless otherwise stated.

CULICIDAE: *Aedes scutellaris* Walk. var. *horrescens* Edw. The female imago attacks human beings (R.P.).—*A. kochi* Don. Female imago attacks human beings (R.P.).—*Megarhinus splendens* Wied. Larvae predaceous on larvae of *Aedes variegatus* Dol. (Culicidae) (R.P.).

TRYPETIDAE: *Dacus passiflorae* Frogg. Larvae feed in the following fruits: *Citrus aurantium* L. var. *japonica* (Rutaceae) (W.G.), *Inocarpus edulis* Forst. (Leguminosae) (H.S.), *Coffea liberica* Bull. (Rubiaceae) (H.S.), *Psidium Cattlei-*

- anum* Sabine (Myrtaceae) (H.S.), *Dracontomelon sylvestire* Bl. (Anacardiaceae) (H.S.), *Persea gratissima* Gaertn. (Lauraceae) (H.S.), *Capsicum grossum* (Solanaceae) (H.S.), *Chrysophyllum Cainito* L. (Sapotaceae) (H.P.), *Solanum Melongena* L. (Solanaceae) (H.P.), *Crescentia Cujete* L. (Bignoniaceae) (H.P.), *Tetranthera palmatinervia* Meisn. (Lauraceae) (W.G.), *Eugenia uniflora* L. (Myrtaceae) (W.G.), *E. braziliensis* Lam. (Myrtaceae) (R.L.), *Barringtonia speciosa* Forst. (Lecythidaceae) (H.S.), *Passiflora laurifolia* L. (Passifloraceae) (W.G.) and *Eugenia Jambos* L. (Myrtaceae) (W.G.).—*Dacus xanthodes* Broun. Larvae feed in the following fruits: *Passiflora quadrangularis* L. and *Carica Papaya* L. (Passifloraceae) (both H.S.).—*Ensina sororcula* Wied. Larvae feed in the flower heads of the following Compositae: *Coreopsis tinctoria* Nutt., *C. lanceolata* L., *Cosmos sulphureus* Cav., *Synedrella nodiflora* Gaertn. and *Tagetes patula* L. (all W.G.).—*Spheniscomyia binocolata* Bez. Larvae feed in the flowers of the following Labiatae: *Coleus Blumei* Benth. and *C. amboinicus* Lour. (both W.G.).
- ORTALIDAE: *Pseudorichardia flavitarsis* Macq. Feed in ripe fruits of *Chrysophyllum Cainito* L. (Sapotaceae) (W.G.).
- MUSCIDAE: *Atherigona excisa* Thoms. var. *trilineata* Stein. Larvae feed in decaying trunks of *Musa sapientum* L. (Scitamineae) (W.G.).—*A. poecilopoda* Bez. In fruits of *Inocarpus edulis* Forst. (Leguminosae) (R.L.).
- SYRPHIDAE: *Xanthogramma javanum* Wied. var. *distinctum* Kertész. Larvae feed on all stages of *Neomaskellia bergii* Sign. (Aleurodidae) (R.V.).
- MICROPEZIDAE: *Telostylinus lineolatus* Wied. Feeds in following fruits: *Crescentia Cujete* L. (Bignoniaceae) (H.P.) and *Inocarpus edulis* Forst. (Leguminosae) (R.L.).
- AGROMYZIDAE: *Melanagromyza alysicarpi* Bez. Larvae tunnel in leaves of *Uraria lagopoides* DC. (Leguminosae) (W.G.).—*Pseudonapomyza atra* Meig. Larvae mine in leaves of following Gramineae: *Eleusine indica* Gaertn. and *Cynodon Dactylon* Pers. (both W.G.).
- TACHINIDAE: *Sturmia sericariae* Corn. Bred from larvae of the following Sphingidae: *Chromis erotus* Cram., *Hippotion celerio* L. and *Herse convolvuli* L. (all W.G.).—*Actia strigilinea* Bez. Bred from larva of *Cirphis unipuncta* Haw. (Noctuidae) (W.G.).—*Ptychomyia remota* Ald. Parasitic on larvae of *Lerua iridescens* B-B. (Zygaenidae) (H.S. and T.T.).—*Erycia basifulva* Bez. Parasitic on *Tirathaba trichogramma* Meyr. (Pyralidae) (R.L.).—*Carcelia kockiana* Towns. Parasitic on *Cryptophlebia (Argyroplote) illepidia* Butl. (Tortricidae) (R.L.).